

Supplementary file for: Bauer W., Siemes H., Spaeth G. & Jacobs J. 2016. Transpression and tectonic exhumation in the Heimefrontfjella, western orogenic front of the East African/Antarctic Orogen, revealed by quartz textures of high strain domains. *Polar Research* 35. Correspondence: Wilfried Bauer, Department of Applied Geosciences, German University of Technology in Oman, PO Box 1816, 130 Athaibah, Sultanate of Oman. E-mail: bauer@geol.rwth-aachen.de

Supplementary Table S1. Measuring conditions of the Siemens texture goniometer.

Radiation	Cr-K α ($\lambda=2.28972 \text{ \AA}$)		
Voltage	30 kV		
Current	16 mA		
Detector slit	10 x 10 mm		
Range Ψ	0 – 80° (step width 5°)		
No. of data points	768	768	768
Planes	a {110}	ξ {112}	r+z {101}
d values	2.457	1.8179	3.342
2 Θ angle	55.54°	77.8°	40.5°
Background 2 Θ	29.0	75.0°	43.5°
Aperture width	1.5 mm	3.4 mm	2 mm
Aperture height	10 mm	10 mm	10 mm

Supplementary Table S2. Sample coordinates and locations. Theriented samples for this study were collected during the Heimefrontfjella expeditions 1985/86 and 1989/90 and the analytical work was carried out between 1992 and 1994. All samples have been transferred to the National Polar Sample Depository at the Federal Institute for Geosciences and Natural Resources at Berlin–Spandau, where they are accessible for further scientific studies.

Sample no.	Easting	Northing	Location	Structure
1608B	12°10'40"W	74°54'57"S	Bowrakammen	HSZ
345	11°47'07"W	74°44'50"S	Bieringmulen	HSZ
417	11°42'40"W	74°43'55"S	Norumnuten	HSZ
984	11°06'0"W	74°35'40"S	Scharffenbergbotnen	HSZ
KJ12	9°55'32"W	74°25'15"S	Trapezberg	HSZ
KS23	9°51'05"W	74°18'38"S	Brandstorpnaabben	Thrust
KJ19	9°50'06"W	74°18'54"S	Brandstorpnaabben	Thrust
KS26	9°51'17"W	74°18'33"S	Brandstorpnaabben	Thrust
KJ18	9°51'09"W	74°18'34"S	Brandstorpnaabben	Thrust
KS19	9°44'26"W	74°19'42"S	Buråbotnen	Thrust
KS14	9°46'52"W	74°19'24"S	Buråbotnen	Thrust
KB15	9°45'20"W	74°18'0"S	Vikenegga	Thrust